

Amendments To The Specification

Please replace the paragraph in the Specification page 1, lines 6-11, with the following amended paragraph:

(1,6-11) The present invention relates to a Liquid Crystal Display (LCD), and more particularly to an LCD which has slits formed on a transparent electrode in a pixel region of a lower substrate at a minute gap and at least one valley formed in a color filter of an upper substrate at a predetermined angle with respect to the slits in order to minimize creation of disclination lines.

Please replace the paragraph in the Specification page 2, lines 5-8, with the following amended paragraph:

Accordingly, in order to overcome the problem described above, a valley is formed in a color filter portion of the upper substrate to be used in driving liquid crystal in a recently utilized method.

Please replace the paragraph in the Specification page 2, lines 9-14, with the following amended paragraph:

Where a valley 42 is formed in a color filter portion of the upper substrate as above, however, the electric field is oriented in opposite to the orientation of liquid crystal molecules 10 so that the liquid crystal molecules 10 are oriented parallel with the valley 42 instead of being oriented perpendicular to the valley 42.

Please replace the paragraph in the Specification page 2, line 24, to page 3, line 5 , with the following amended paragraph:

Accordingly, the present invention has been made to solve the above-mentioned problems occurring in the prior art, and an object of the present invention is to provide an LCD having liquid crystal molecules that lie at a predetermined direction around a valley formed in an upper substrate of the LCD in order to prevent creation of ~~an~~ unadjustable disclination lines.

Please replace the paragraph in the Specification page 3, lines 6-17, with the following amended paragraph:

In order to accomplish this object, there is provided a liquid crystal display comprising: an upper substrate; a lower substrate; a plurality of slits formed in a pixel region of the lower substrate, each of the slits having a minute gap from adjacent one of the slits; at least one valley formed in a color filter of the upper substrate covered with a transparent electrode, and having a predetermined angle with respect to the slits; vertical alignment material formed in opposite faces of the upper and lower substrates; a liquid crystal layer injected between the upper and lower substrates; and polarizers arranged in outer faces of the upper and lower substrates, and having transmission axes which are perpendicular to each other.

Please replace the paragraph in the Specification page 3, lines 18-23, with the following amended paragraph:

In the liquid crystal display, the slits formed in the lower substrate are arranged with respect to the valley formed in the upper ~~plate~~ substrate at an angle of about 0 to 90 degrees, and preferably, about 0 to 45 degrees. The slits formed in the lower substrate have a width within about 5 μm , and the valley formed in the upper substrate has a width of about 5 to 20 μm .

Please replace the paragraph in the Specification page 4, lines 4-10, with the following amended paragraph:

The liquid crystal display of the invention may further comprise uniaxial or biaxial phase compensation plates between the lower substrate and one of the polarizers and between the upper substrate and the other one of the polarizers, wherein the uniaxial phase compensation plate has an Rth value ranging from about 40 to 800nm, and the biaxial phase compensation plate has an Rth value ranging from about ~~40~~ 150 to ~~800~~ 200 nm.

Please replace the paragraph in the Specification page 5, lines 12-14, with the following amended paragraph:

Fig. 4 is a schematic plan view for showing the orientation of liquid

crystal molecules ~~where the LCD of the invention comprises multiple domains~~ according to an embodiment of the invention for multi-domain;
and

Please insert the following new paragraph in the Specification page 5,
beginning at line 18:

Fig. 6 is a cross sectional side view showing generally the main components of the liquid crystal display according to any embodiment of the present invention.

Please replace the paragraph in the Specification page 5, line 24, to page 6, line 10 with the following amended paragraph:

Fig. 3 is a schematic plan view for showing the orientation of liquid crystal molecules in an LCD according to a preferred embodiment of the invention. The LCD of the invention is devised using the fact that liquid crystal or liquid crystal molecules 10 lie parallel to slits 22 instead of lying perpendicular to the slits 22, where the slits 22 are formed with a combs shape, which has narrow distances between electrodes. The electrodes are ~~is~~ made of transparent conductive material such as Indium Tin Oxide (ITO). These electrodes with combs shape of narrow distances makes LCs parallel to slits instead of perpendicular to slits because of strong LCs interaction relative to the electric field.

Please replace the paragraph in the Specification page 7, line 21, to page 8, line 1, with the following amended paragraph:

The polarizers attached on outer faces of the upper and the lower substrates have transmission axes that are perpendicular to each other. One of the polarizers is arranged to an angle of about 30 to 60 degrees with respect to the valley 42 in the upper substrate or the slits 22 in the lower substrate 20.

Please replace the paragraph in the Specification page 8, lines 10-13, with the following amended paragraph:

The Rth value is in a range of about 40 to 800nm where uniaxial phase compensation plates are used, and in a range of about ~~40~~ 150 to ~~800~~ 250 nm where biaxial phase compensation plates are used.

Please insert the following new paragraph in the Specification page 9, beginning at line 22:

Shown in Fig. 6 is a cross sectional side view showing generally the main components of the liquid crystal display 50 according to any embodiment of the present invention. The liquid crystal display 50 includes at least an upper substrate 54 and a lower substrate 66. A planar pixel electrode 62 having a plurality of slits 64 is formed in accordance with a predetermined pattern on the lower substrate. A valley 58 is formed in a color filter 56 of the upper substrate 54, which is

covered with a transparent electrode 70. The surface of the valley is aligned to have a predetermined angle with respect to the slits 64 of the pixel electrode 62. A vertical alignment material (not shown) is formed on opposite faces of the upper and lower substrates. A liquid crystal layer 60 is formed in between the upper and lower substrates 54, 66. Polarizers 52, 68 are arranged on outer faces of the upper and lower substrates 54, 66. The polarizers 54, 66 have the transmission axes that are perpendicular to each other.